

# FILE NOTATIONS

Entered in NID File

Entered On S & A Sheet

Location Map Dipped

IWR to State of Fee Land

Checked by Chief

Checked by Chief

Copy NID to Field Office

Copy NID to Field Office

Approval Letter

Disapproval Letter

## COMPLETION DATA:

Date Well Completed

GW..... WW..... TA.....

GW..... OS..... PA.....

Location Inspected

Bond released

State of Fee Land

## LOGS FILED

Driller's Log.....

Electric Logs (No. ).....

E..... E-I..... GR..... GR-N..... Micro.....

Lat..... MI-L..... Sonic..... Others.....

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYU.S. Land Office Salt Lake  
City, Utah.Serial Number 026798

Master Permit \_\_\_\_\_

GEOLOGICAL SURVEY  
RECEIVED  
NOV 6 1934

## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT RECORD OF SHOOTING	
NOTICE OF INTENTION TO CHANGE PLANS		RECORD OF PERFORATING CASING	
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO ABANDON WELL	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO SHOOT		SUPPLEMENTARY WELL HISTORY	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

, 19

Following is a {notice of intention to do work} on land under {permit} described as follows:  
{report of work done} {lease}

Utah Grand Seven Mile Ant.  
(State or Territory) (County or Subdivision) (Field)

Well No. 1, Rath SE 1/4 12, T.25 S., R.20 E. S.L.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located \_\_\_\_\_ ft. {N} of \_\_\_\_\_ line and \_\_\_\_\_ ft. {E} of \_\_\_\_\_ line of sec. \_\_\_\_\_The elevation of the derrick floor above sea level is 4600 ft.

## DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

Cement in solid 80 ft 12 $\frac{1}{2}$  inch conductor pipe to case off surface water. Mud off sulphur water at about 1100 ft with 45 lb. 10 inch casing. Should water show between 1100 feet and first objective sand at about 1650 ft will mud off with 36 lb. 8 $\frac{1}{2}$  inch casing. If oil sand at 1650 ft not commercial will underream and mud off sulphur water at about 1850 ft with said 8 $\frac{1}{2}$  inch casing.

Cement in 26 lb-6 $\frac{1}{2}$  inch casing just before reaching second objective sand about 2700 ft. altho no water is anticipated between this depth and said 1850 ft. NOTE: Subsurface geology taken from log of Big Six test well located on flank of Seven Mile anticline, Sec. 34, T.25 S., R.21 E. S.L.M.

Approved \_\_\_\_\_  
(Date)Company Cal-Ute Oil Co.By H.L. Rath *J.H. Rath*Title \_\_\_\_\_  
GEOLOGICAL SURVEYTitle Field Mgr. & Geologist.

Address \_\_\_\_\_

Address 210 Felt Bldg. Salt Lake, Utah.

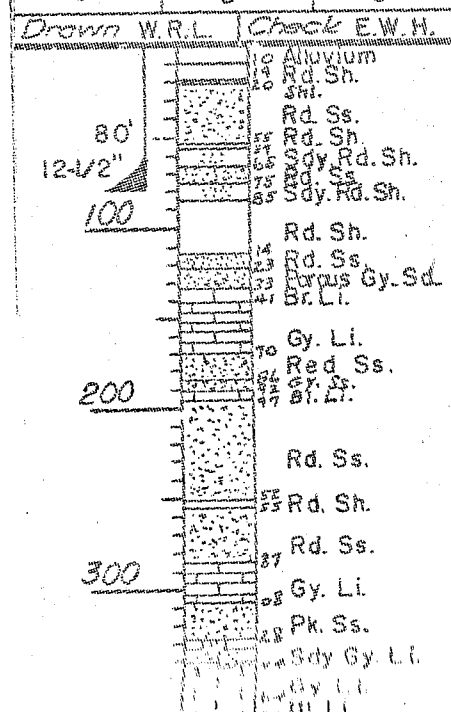
NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

# U.S. GEOLOGICAL SURVEY OIL & GAS LEASING

COLUMBIA CRUDE CORP.  
7-MILE, GRAND CO., UTAH  
PERMIT S.L. 026798

No. 1 Sec. 12-25S-20E

NE SW 1/4 SE 1/4	
LOCATION	12
1020' N/S	
1620' W/E	+
DELEV. 9100' ±	
SPUDDED IN	COMPLETED
7-31-1935	10-26-1938
INITIAL PRODUCTION	
OIL	WATERGAS GAS
0	0 0

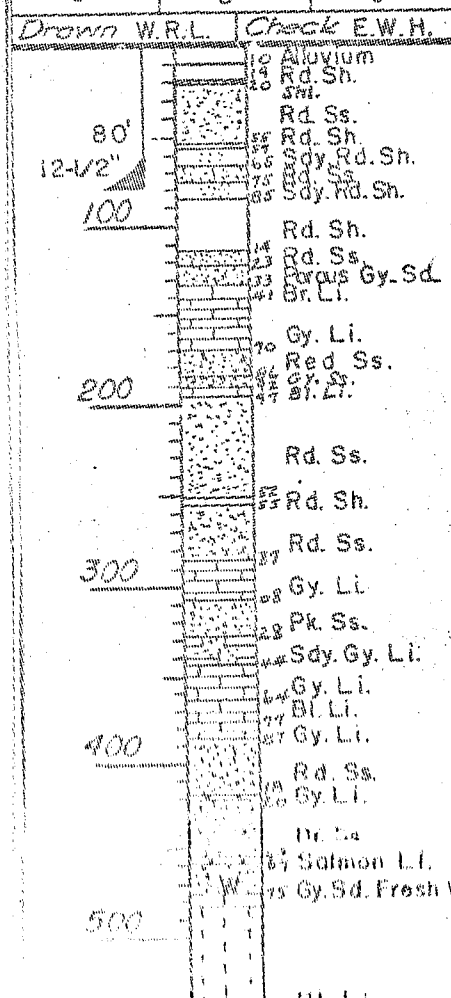


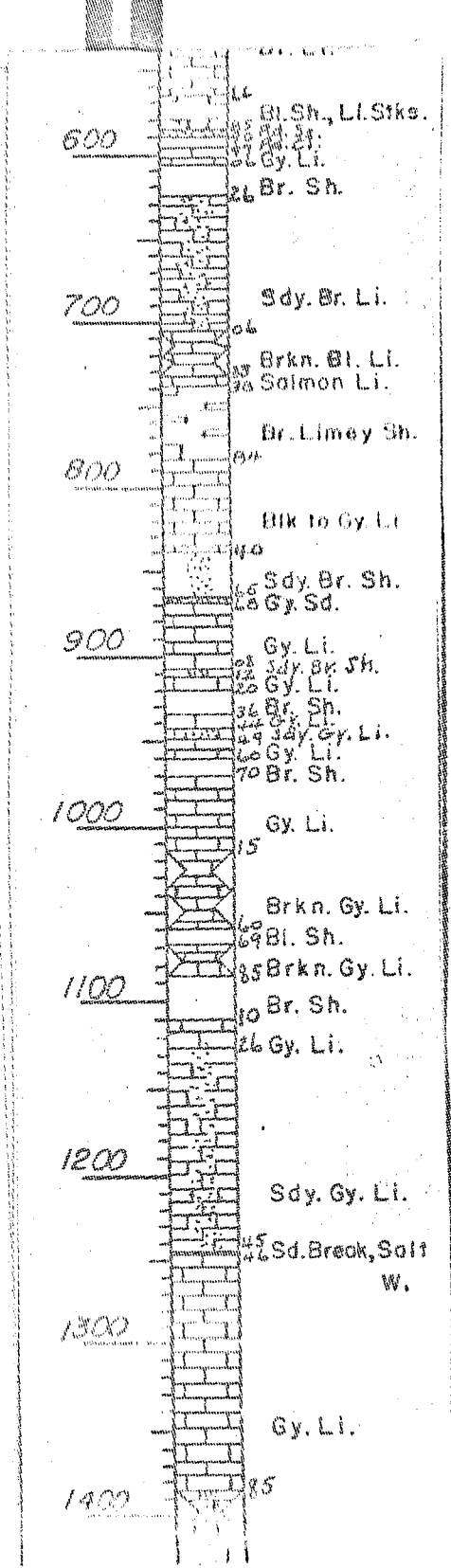
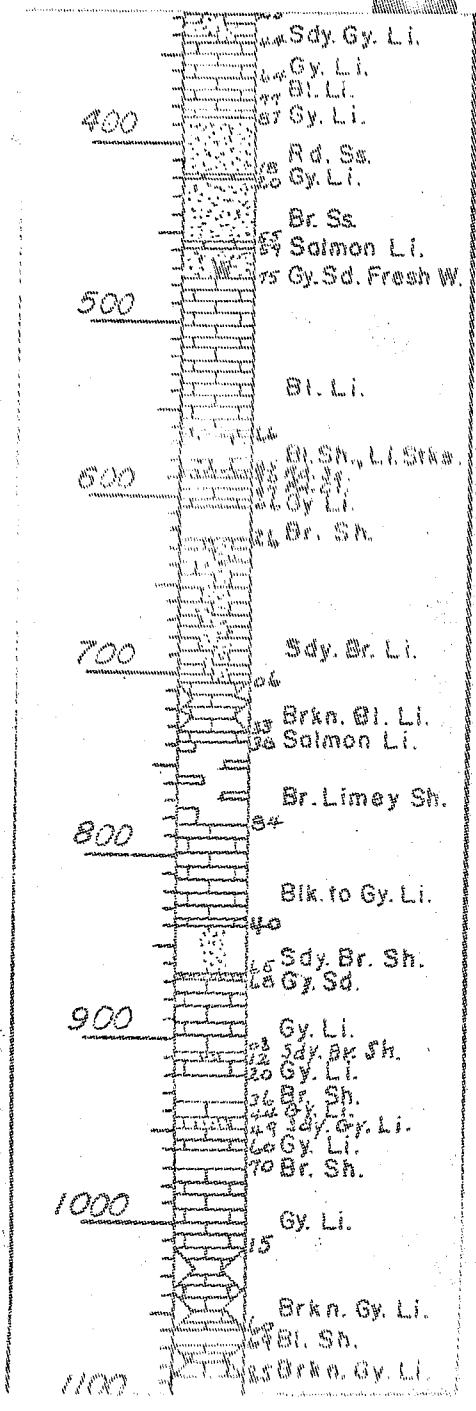
# U.S. GEOLOGICAL SURVEY OIL & GAS LEASING

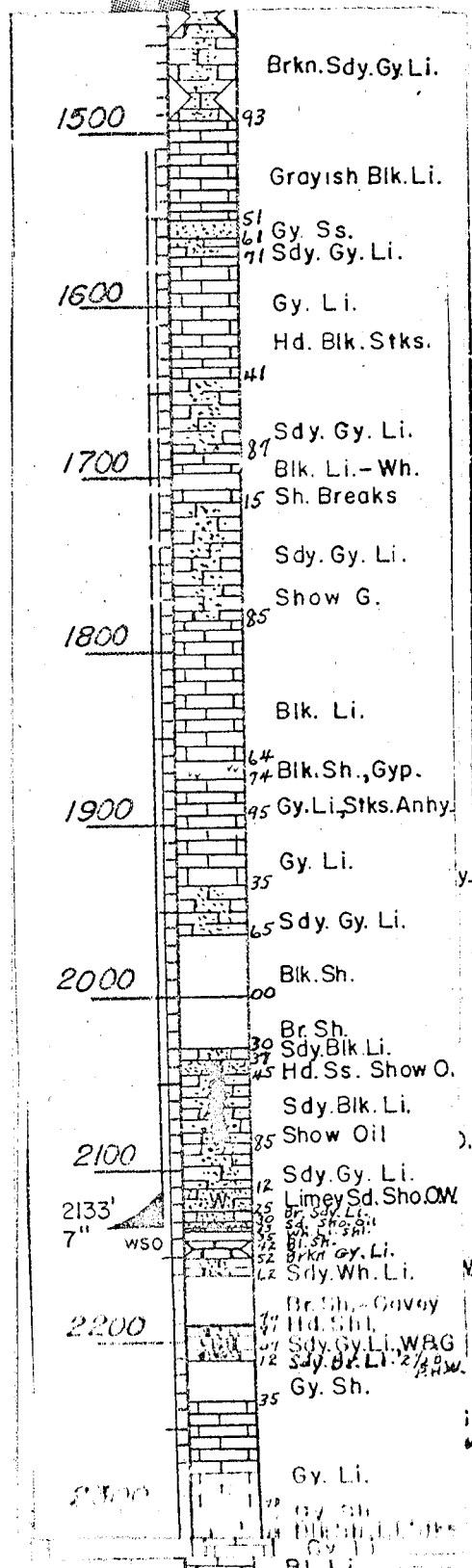
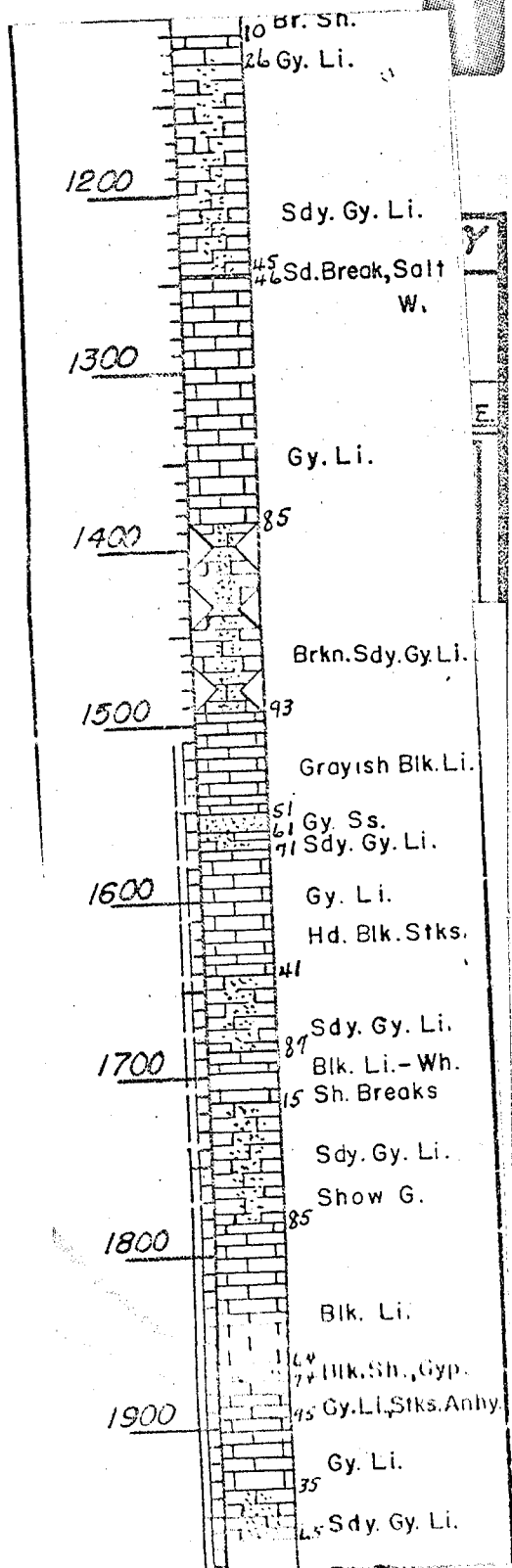
COLUMBIA CRUDE CORP.  
7-MILE, GRAND CO., UTAH  
PERMIT S.L. 026798

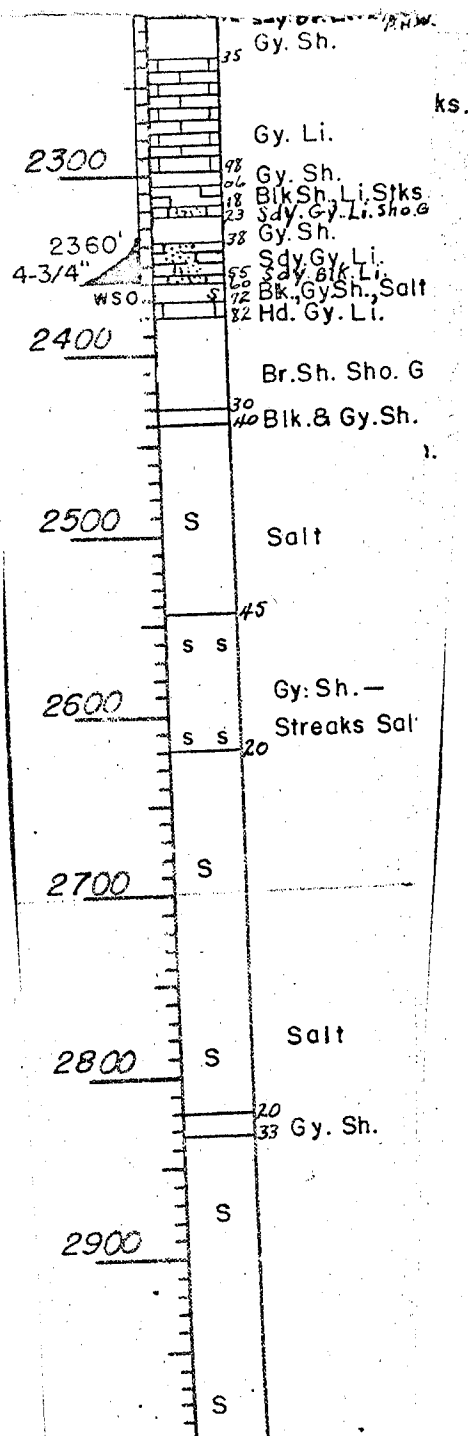
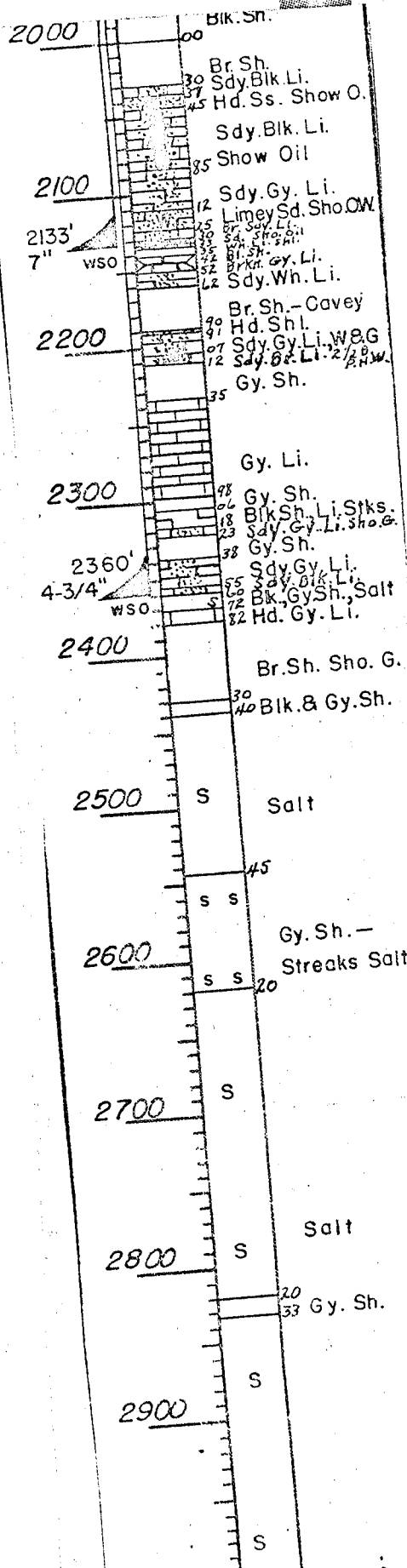
No. 1 Sec. 12-25S-20E

NE SW 1/4 SE 1/4	
LOCATION	12
1020' N/S	
1620' W/E	+
DELEV. 9100' ±	
SPUDDED IN	COMPLETED
7-31-1935	10-26-1938
INITIAL PRODUCTION	
OIL	WATERGAS GAS
0	0 0









DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

U. S. Land Office \_\_\_\_\_  
Salt Lake City  
Serial Number 026798  
Lease or Permit Permit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT RECORD OF SHOOTING	
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NOTICE OF INTENTION TO SHOOT		SUPPLEMENTARY WELL HISTORY	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 10, 1935

Following is a ~~report of work done~~ {notice of intention to do work} on land under ~~lease~~ {permit} described as follows:

Utah Grand Seven Mile Structure  
(State or Territory) (County or Subdivision) (Field)  
Well No. 1 SW  $\frac{1}{4}$  Sec. 12 T. 25 S., R. 24 E. S. L. M.  
( $\frac{1}{4}$  Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1020 ft. ~~W~~ <sup>N</sup> of S line and 1620 ft. ~~W~~ <sup>E</sup> of E line of sec. 12

The elevation of the derrick floor above sea level is 4700 ft.

DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

Propose to drill a test of the Paradox formation expected at approximately 2600 feet below the surface. Will set and cement 80 feet of 12 $\frac{1}{2}$ " conductor with not less than 25 sacks. Will set 8 $\frac{1}{2}$ " casing at bottom of Hermosa formation expected at approximately 1800 feet. Will set 6 $\frac{1}{2}$ " casing as a production string if necessary to properly complete well.

Approved (SEE ATTACHED) JULY 23, 1935.

*E. W. Henderson*  
(Date)  
E. W. Henderson

Title District Engineer  
306 Federal Bldg., GEOLOGICAL SURVEY

Address Salt Lake City, Utah.

Company Columbia Crude Corporation

By *John Charles Lutz*

Title President  
1106 Newhouse Bldg.,

Address Salt Lake City, Utah.

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

SEVEN MILE - Grand County

✓ 12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798) Ref. No. 1

✓ STATUS: Abd. T.D. 4243', salt (G. E. Pitts 10-24-38).

REMARKS: Tools lost at 4243 ft. could not be recovered.

Plan of abandonment approved October 29 and abandonment work now in progress. Details will be given in November report. (OCTOBER, 1938)

H  
L. M.

SEVEN MILE - Grand County

12-25S-20E NESW $\frac{1}{4}$ SE $\frac{1}{4}$ , Columbia Crude Corp., Well #1 (S.L. 026798) Ref. No. 1 (NOVEMBER, 1938)

✓ STATUS: P&A - T.D. 4243', salt (Visited 11-28-38)

REMARKS: Hole was filled with mud fluid to top of salt formation at 2450 ft. and alternating plugs of rock, wood and cement set to 2350 ft. Hole was then mudded to surface and regulation marker erected. Subsequent report of abandonment approved November 22, 1938. Lowest formation tested Paradox. Drilling ceased October 26, 1938.



SEVEN MILE - Grand County

✓ 12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798)

Ref. No. 1. (JULY, 1938)

✓ STATUS: Drg. T.D. 3995', salt (Visited 7-14-38)

REMARKS: One string of casing had been pulled and preparations were being made to shoot a second string when telegraphic orders were received to continue test to 5,000 feet. Casing has been re-run. Crew waiting for new 5500-foot drilling and sand line at time of visit.

SEVEN MILE - Grand County

✓ 12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798).

Ref. No. 1. (AUGUST, 1938)

✓ STATUS: Drg. T.D. 3995', salt (Visited 8-2-38).

REMARKS: When 5-3/16" casing was re-run it was found the casing seat had been destroyed and that a formation shut off could not be obtained. Operator trying to obtain a shut off by cementing, and if unsuccessful will abandon the hole.

SEVEN MILE - Grand County

✓ 12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798)

Ref. No. 1. (SEPTEMBER, 1938)

✓ STATUS: CO. T.D. 3995', salt (Visited 9-14-38).

REMARKS: Successful WSO obtained with 5-3/16" casing. Crew cleaning out preparatory to deepening to 5,000 feet.

SEVEN MILE - Grand County

12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798)

Ref. No. 1. March  
~~(XXXXXXXXXX)~~, 1938)

✓ STATUS: Drg. T.D. 3502', anhydrite (Visited 3-31-38).

REMARKS: Company's geologist reports hole probably  
bottoms in lower part of Paradox formation and has  
recommended drilling be continued to 4500'.

✓ SEVEN MILE - Grand County

12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798)

Ref. No. 1. APRIL, 1938

✓ STATUS: Fg. T.D. 3995', salt. (Visited 4-29-38)

REMARKS: 2500 ft. of drilling line and a string of  
tools were lost in the hole when line parted at a  
splice. If fishing job can be cleaned up hole will  
be continued to 5,000 ft., unless water or oil is  
encountered at lesser depth. Hole dry.

✓ SEVEN MILE - Grand County

12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798)

Ref. No. 1. (MAY, 1938)

✓ STATUS: Fg. T.D. 3995', salt. (Visited 5-12-38)

REMARKS: Fishing operations suspended most of month due  
to breakdown and waiting for special fishing tools.

✓ SEVEN MILE - Grand County

12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798) Ref. #1 JUNE, 1938

✓ STATUS: Fg. T.D. 3995', salt (G. E. Pitts 6-26-38).

REMARKS: Lost tools could not be recovered. Notice of  
intention to abandon approved June 27, 1938. Preparation  
to abandon now being made.

SEVEN MILE - Grand County

12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798)

Ref. No. 1.

*Dec. 1937*

STATUS: Drg. T.D. 2365', lime. (G.F. Pitts 12-27-37)

REMARKS: Entire month spent in fishing for tools. Hole cleaned out and drilling resumed last day of month.

SEVEN MILE - Grand County

12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798)

Ref. No. 1.

(January, 1938)

✓ STATUS: Drg. T.D. 2460', lime. (Visited 1-15-38)

REMARKS: Hole dry. Formation caving and slow progress being made.

SEVEN MILE - Grand County

12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798)

Ref. No. 1.

FEBRUARY, 1938

✓ STATUS: Drg. T.D. 3260', salt. (Visited 2-5-38)

REMARKS: Top of salt 2440 ft. Salt reported 2440 - 2545 ft., 2620 - 2820 ft., and 2833 - 3260 ft. Hole bottoms in salt. Preliminary analysis of salt samples show low concentration of potash. Hole will be drilled deeper to test for potash and possible oil or gas sands in or at the base of the salt beds.

255  
12-285-20E

NE SW SE, Columbia Crude Corp., Well #1 (S.L.C. 026798)

Ref. No. 1.

*June 1937*

STATUS: DRG. 2265', lime (Visited 6-26-37)

REMARKS: Caving formation has made it impossible to continue with equipment in use. Operator proposes to replace light portable drilling machine with a standard rig and continue test to objective expected within the next 300 to 400'.

255  
12-285-20E

NE SW SE, Columbia Crude Corp., Well #1 (S.L.C. 026798)

Ref. No. 1.

STATUS: DST. T. D. 2265', limestone. (Visited 7-27-37)

REMARKS: Operations remained suspended during the month pending installation of heavier equipment.

12-25S-20E

NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798) Ref.No.1

STATUS: DST. T. D. 2265', limestone (Visited 8-18-37)

REMARKS: Operations remain suspended as reported last month.

Will omit from future reports until operations are resumed.

12-25S-20E

NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798)

Ref. No. 1.

*October, 1937*

STATUS: DRG. 2265', Limestone (Visited 10-29-37)

REMARKS: Operations resumed 10-28-37. Caving formation between 2133 and 2265' will be cemented with dump bailer or, if necessary, pump and tubing.

12-25S-20E

NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798)

Ref. No. 1.

*Nov., 1937*

STATUS: Drg. T.D. 2365', lime. (G.F.Pitts 12/2/37)

REMARKS: A string of 5" O.D. casing has been run to 2336' and will be carried by underreaming to point where water shut off can be obtained.

12-28S-20E= NE SW SE, Columbia Crude Corp., Well #1 (S.L.C. 026798)  
25

Ref. No. 1.

STATUS: DRG. 2135', sand (G. E. Pitts 2/2/37)

REMARKS: Underreaming 7" casing for FSO at 2112'.

12-26S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L.C. 026798)  
25

Ref. No. 1.

STATUS: DRG. 2135', sand (Visited 3/25/37)

REMARKS: 2133' of 7" O.D. casing cemented with 75 sacks using Perkins two-plug method on 2/25/37. When operations were resumed 3/31 top of cement located at 1600'. Crew now drilling cement out of pipe.

12-26S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L.C. 026798)

Ref. No. 1.

STATUS: DRG. 2250', grey lime (Visited 5/1/37)

REMARKS: WSO obtained by driving shoe into formation when drilling cement out of pipe. Water sands at 2160-2, 2200-7, and 2250' refilled hole. Crew trying to cement off cave at 2250'.

12-26S-20E  
25

NE SW SE, Columbia Crude Corp., Well #1 (S.L.C. 026798)

Ref. No. 1.

STATUS: DRG. 2250', grey lime. (Co. report 5/26/37)

REMARKS: No progress during month due to break down of equipment and caving formation.

12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S. L. C. 026798)

Ref. No. 1. *Nov. 1936*

STATUS: DRG. 1804', Hermosa limestone (Pitts 12-3-1936)

REMARKS: Two ~~of~~ difficult fishing jobs due to tool joints breaking on ~~the~~ hard limestone formation delayed operations practically the entire month.

12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798), Ref. No. 1.

STATUS: DRG. 2030', limestone shell (Pitts 12-28-36) *Dec. 1936*

REMARKS: Bottom of hole believed to be about 600' in Paradox formation and salt series expected within next 100'. 7" casing will be set at 2030' and hole dried up before drilling deeper.

<sup>25</sup>  
12-28S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L.C. 026798)

Ref. No. 1. *Dec. 1937*

STATUS: DRG. 2135', sand (G. E. Pitts 2/2/37)

REMARKS: A hard limestone at 2082' ~~to~~ 2135' is reported to have shown an oil cut. Crew now working to shut off upper water with 7" casing at 2030'. Definite instructions have been given that no deeper drilling can be done except in a dry hole.

12-25S-20E. NE SW SE, Columbia Crude Corp., Well No. 1 (S. L. C. 026-798) Ref. No. 1. *July 1936*

STATUS: DRG. 1300', Hermosa limestone (G. E. Pitts 7-31-36)

REMARKS: Operations were shut down several days during the month while waiting for new lines. A unit plan of operation revised in accordance with instructions of the Washington office has been perfected and will be submitted immediately for approval.

12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S. L. 026798) Ref. No. 1. *Aug. 1936*

STATUS: DRG. 1400', Hermosa limestone (G. E. Pitts 9-2-36)

REMARKS: The 12" hole has been straightreamed to 646' so that 10" casing can be set to shut off water encountered at 475'. A small amount of water was struck at 1248'. Present plans are drill ahead in a wet hole and set 6" at about 1800'

12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S.L. 026798) Ref. No. 1. *Sept. 1936*

STATUS: DRG. 1550', limestone (Visited 9-15-1936)

REMARKS: Hole was straight reamed from 136' to 638' and shoulder for 12" casing left at that depth. The 12" casing will be run to shut off water encountered at 475' if water now in the hole causes formation being drilled to cave.

12-25S-20E NE SW SE, Columbia Crude Corp., Well #1 (S. L. 026798) Ref. No. 1. *Oct. 1936*

STATUS: DRG. 1610', limestone (G. E. Pitts 11-2-1936)

REMARKS: Operations were suspended almost the entire month while waiting for a new drilling line and housing in rig for winter. Line was received and operations resumed on October 30.

12-25S-20E, NE SW SE, Columbia Crude Corp., Well No. 1 (S. L. 026798)

Ref. No. 1

*March 1936*

STATUS: DRG. 136', limestone (Visited 3-31-36)

REMARKS: Operations were resumed on March 25, 1936 under new management and with a new crew. Operator has requested and obtained permission to delay cementing of the conductor pipe until hole has been drilled to approximately 300' to determine presence of water sands. If no water sands are present the hole will be bridged back to approximately 80' and 12 $\frac{1}{2}$ " conductor cemented at that depth.

12-25S-20E, NE SW SE, Columbia Crude Corp., Well No. 1 (S. L. 026798)

Ref. No. 1.

*April 1936*

STATUS: Drg. 350' shale (Visited 4-23-1936)

REMARKS: A conductor string of 81' of 12 $\frac{1}{2}$ ", 45#, casing was cemented with 25 sacks. Some delay was caused during the month by break down of drilling equipment.

12-25S-20E, NE SW SE, Columbia Crude Corp., Well No. 1 (S. L. C. 026-

798) Ref. No. 1.

*May 1936*

STATUS: DRG. 640', limestone (Visited 5-8-1936)

REMARKS: A gray sandstone at 459 to 475' contained sulphur water which rose about 70' in the hole. Water will be kept bailed down and used in the hole for drilling purposes. (VIRGIN - Washington County)



12-25S-20E. Ref. No. 1, Columbia Crude Corp., Rath #1 (S. L. 026

798) NE SW SE

*Nov. 1935* ✓

STATUS: DRG. 130', shale (Western Min. Sur. 11-29-35)

REMARKS: Crew working day light tour only.

12-25S-20E. Ref. No. 1, Columbia Crude Corp., Rath #1 (S. L.

026798) NE SW SE

*Dec. 1935* ✓

STATUS: DRG. 135', shale.

REMARKS: Operations reported to have been suspended over the holidays while officials are in California to arrange for financing further work.

12-25S-20E. Ref. No. 1, Columbia Crude Corp., Rath #1 (S. L. C.

026798) NE SW SE

*Jan. 1936*

STATUS: DST. 136', limestone (G. E. Pitts 1-6-36)

REMARKS: Well drilled Rico formation of Permian age from 0 to 135' and Hermosa limestone of Pennsylvanian age 135 to 136'. An additional 20' of this formation will be drilled before setting 12 $\frac{1}{2}$ " conductor. Operations temporarily suspended awaiting approval of company's application for permission to sell stock in other states than Utah.

12-25S-20E. Ref. No. 1, Columbia Crude Corp., Rath #1 (S. L. C.

026798) NE SW SE

*D.S.I.*

*Feb. 1936* ✓

STATUS: DST. 136', limestone

REMARKS: Drilling suspended indefinitely. Will Be omitted from future reports until operations are resumed.

12-25S-20E. Ref. No. 1, Columbia Crude Corp., Rath #1 (S. L. 026798)

NE SW SE

*July 1935*  
STATUS: ~~NEW DRILLING WELL~~ 10', alluvium (Visited 7-18-35)

*new drilling well*  
REMARKS: Spudded July 31, 1935. Objective Paradox formation expected at approximately 2600'. The test is being drilled on a monoclinal structure with uncertain closure. One condition favorable for accumulation of oil in the structure is the known lenticularity of sands in the Paradox formation.

12-25S-20E. Ref. No. 1, Columbia Crude Corp., Rath #1 (S. L. 026798)

NE SW SE.

*Aug. 1935*  
STATUS: DRG. 80', shale (Pitts 8-9-35)

REMARKS: Company reported to have set conductor string and suspended operations waiting for cement to set. No other information available.

12-25S-20E. Ref. No. 1, Columbia Crude Corp., Rath #1 (S. L. 026798)

NE SW SE.

*Sept. 1935*  
STATUS: DST. 80', shale (Visited 9-12-35)

REMARKS: Operations have remained suspended during the month waiting for tools and money to meet labor bills. Will be omitted from future monthly reports until operations are resumed.

12-25S-20E. Ref. No. 1, Columbia Crude Corp., Rath #1 (S. L. 026798)

NE SW SE

*Oct. 1935*  
STATUS: DST. 80', shale (Company report 10-26-35)

REMARKS: Company reports needed drilling equipment has been obtained and crew working daylight tour to complete rigging up. Actual drilling operations will be resumed about November 5th.

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

U.S. Land Office  
Salt Lake City  
Serial Number 026793  
Lease or Permit Permit

SUNDRY NOTICES AND REPORTS ON WELLS

DEC 29 1936

NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING
NOTICE OF INTENTION TO CHANGE PLANS	RECORD OF PERFORATING CASING
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
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NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY
	NOTICE OF INTENTION TO SET CASING <input checked="" type="checkbox"/>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)


Following is a notice of intention to do work on land under permit described as follows:  
report of work done lease

Utah Grand Seven Mile Monarch  
(State or Territory) (County or Subdivision) (Field)  
Well No. 1 SE 1/4 Sec 12 25 S. 20 E. S. L. M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1020 ft. N of S line and 1620 ft. E of E line of sec. 12

The elevation of the derrick floor above sea level is 4750 ft. ±

DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

Mudding the hole preparatory to setting pipe 7" I.D. - O.P.D. 28" casing at 2030' ± on Lime Shell. Filling hole with viscous mud to a point above 1800', or above the shale streaks of the Hermosa-Paradox transition. Setting pipe for formation shut-off at this time, with idea of cementing later if oil is encountered.

Report on result of casing and water-shut-off test (Form 9-331A) to be submitted immediately upon completion of the test, giving details and results of the test.

Approved December 29, 1936  
(Date)

Company Columbia Crude Co.

E. W. Henderson,  
Title District Engineer.

By J. E. Pitts

306 Federal Geological Survey  
Address Salt Lake City, Utah

Title Geologist in Charge.

Address Moab - Utah

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Salt Lake City

Serial Number 026798

Lease or Permit Permit

SUNDRY NOTICES AND REPORTS ON WELLS

JAN 18 1937

NOTICE OF INTENTION TO DRILL		SUBSEQUENT RECORD OF SHOOTING	
NOTICE OF INTENTION TO CHANGE PLANS	*	RECORD OF PERFORATING CASING	
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	*
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	*	NOTICE OF INTENTION TO ABANDON WELL	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO SHOOT		SUPPLEMENTARY WELL HISTORY	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Moab Utah, Jan 16, 1937, 19

Following is a {notice of intention to do work} on land under {permit} described as follows:  
{report of work done} {lease}

Utah Grand Seven Mile Monocline  
(State or Territory) (County or Subdivision) (Field)  
Well No. 1 NE 1/4 Sec. 12- 25S- 20E.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1020 ft. <sup>N</sup> of S line and 1620 ft. <sup>E</sup> of W line of sec. 12

The elevation of the derrick floor above sea level is 4750 ft. plus or minus

DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

Attempted formation shut off in Columbia Crude test at 2030' was not successful as water broke in again. Picked pipe up and attempted to reseal, water broke in again. Now drilling ahead until the tools are well below the casing seat, at which time pipe will be pulled and casing spot cleaned with ten inch tools, remudded and again tried for formation shut off.

Note: Procedure for obtaining water shut off approved with understanding that if water shut off is again unsuccessful the pipe will be cemented at present depth or prior approval obtained on a plan for continuing test before drilling deeper.

Approved (see above note) Jan. 18, 1937  
(Date)

Company Columbia Crude Corp.,

By *[Signature]*

Title Geologist

E. W. Henderson,  
Title District Engineer  
306 Federal Bldg., GEOLOGICAL SURVEY

Address Salt Lake City, Utah

Address Moab, Utah

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

9-546  
(April, 1931)

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Field Laboratory - Midwest, Wyoming

INFORMATION TO BE FURNISHED WITH EACH SAMPLE OF: (1) WATER,  
(2) OIL, (3) GAS, (4) GASOLINE, FOR ANALYSIS (Indicate which).

Marks on Container ..... Lab. No. .... (Filled by Chemist)  
SOURCE OF SAMPLE:

Field ~~Seven Mile Dose~~ ..... Farm or <sup>Permit</sup> ~~Lease~~ Salt Lake City 026798 .....  
(Serial Number)

Operator ~~Columbia Crude Corporation~~ ..... Operator's Address ~~Salt Lake City, Utah.~~ <sup>2520</sup>

Well No. ~~1 NE 37 SE~~,  $\frac{1}{4}$  Sec. ~~12~~, Twp. ~~26 S~~, Rge. ~~20 E~~, P.M. ~~S.L. M.~~

Sample taken by ~~E. W. Henderson~~ ..... Date taken ~~1-15-1937~~

If known, name of sand (or formation) from which this sample is produced ~~Hermosa~~  
(If doubtful, so state)

Depth to top of sand ~~1st sand 459-475~~ ..... Depth to bottom of sand ~~2d sand 1247'~~ (Crevice)

Depth well drilled ~~2134~~ ..... Present depth ~~2134~~

Depths (if known) where water encountered ~~459 and at 1247'~~

Depth at which water string is landed, cemented, mudded ~~2023' landed~~

METHOD OF SAMPLING:

Place where sample was obtained (sump hole, lead line, flow tank, bailer, etc.)

~~Bailed from hole.~~

Method of production (flowing, pumping, air, etc.) ~~Drilling well~~

Initial production:

Barrels Oil ~~0~~

Present production:

Barrels Oil ~~0~~

Barrels Water ~~Not determined~~

Barrels Water ~~Not determined~~

Gas Volume ~~0~~

Gas Volume ~~0~~

Rock Pressure ~~Water level 465'~~  
~~below surface~~

Rock Pressure ~~Water level 465'~~  
~~below surface~~

REASON FOR ANALYSIS:

- (1) Future reference: ~~X~~
- (2) .....
- (3) Correlation: ~~To be correlated with water sample obtained~~
- (4) ~~2-26-1937 to determine whether a third water~~  
~~sand has been drilled.~~

Note: A sample for analysis is of no value unless accompanied by above information. Complete information on this form is to be attached to each sample container; otherwise sample will be disregarded. Be sure to seal or tightly cork all containers immediately after sampling and label all samples so that there will be no confusion.

9-546-b  
(August, 1932)

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Laboratory - ~~Midwest~~, Wyoming.

INFORMATION TO BE FURNISHED WITH EACH SAMPLE OF WATER

Marks on container ..... Lab. No. 37-493 (Filled by Chemist)

SOURCE OF SAMPLE:

Field Seven Mile Dome, Utah Farm or Permit  
lease Salt Lake City 026798  
(Serial Number)

Operator Columbia Crude Corporation Operator's Address Salt Lake City, Utah

Well No. 1 NE SW SE,  $\frac{1}{4}$  Sec. 12, T. 26 S, R. 20 E, M. S.L.M.

Sample taken by E. W. Henderson Date taken 1-15-37

If known, name of sand (or formation) from which this sample is produced Hermosa  
(If doubtful, so state)

Depth to top of sand 1st sand 452-475 Depth to bottom of sand 2nd sand 1247' (Crevice)

Depth well drilled 2134 Present depth 2134

Depths (if known) where water encountered 459 and at 1247'

Depth at which water string is landed, cemented, mudded 2028' landed

METHOD OF SAMPLING:

Place where sample was obtained (sump hole, lead line, flow tank, bailer, etc.)

Bailed from hole

Method of production (flowing, pumping, air, etc.) drilling well

Initial production:

Present production:

Barrels Oil 0  
Barrels Water Not determined  
Gas Volume 0  
Rock Pressure Water level 465'  
below surface

Barrels Oil 0  
Barrels Water Not determined  
Gas Volume 0  
Rock Pressure Water level 465'  
below surface

REASON FOR ANALYSIS:

- (1) Future reference: X
- (2) .....
- (3) Correlation: To be correlated with water sample obtained 2-26-1937
- (4) to determine whether a third water sand has been drilled.

Note: A sample for analysis is of no value unless accompanied by above information. Complete information on this form is to be attached to each sample container; otherwise sample will be disregarded. Be sure to seal or tightly cork all containers immediately after sampling and label all samples so that there will be no confusion.

# WATER ANALYSIS

Condition of Sample ..... Laboratory No. **37-196**

Analyzed by **J. G. Crawford** at **Midwest, Wyoming** Date **3-3-37**

## Reacting Values

	Parts per million	Reacting Value in value	per cent
Sodium and Potassium (calculated as Sodium)	<b>2174</b>	<b>94.58</b>	<b>38.37</b>
Calcium (Cal)	<b>413</b>	<b>20.62</b>	<b>8.36</b>
Magnesium (Mg)	<b>98</b>	<b>8.06</b>	<b>3.27</b>
Iron (Fe)			
Sulphate (SO <sub>4</sub> )	<b>4844</b>	<b>100.86</b>	<b>40.91</b>
Nitrate (NO <sub>3</sub> )			
Chloride (Cl)	<b>588</b>	<b>16.58</b>	<b>6.73</b>
Carbonate (CO <sub>3</sub> )			
Bicarbonate (HCO <sub>3</sub> )	<b>355</b>	<b>5.82</b>	<b>2.36</b>
Hydroxide (OH)			
Silica (SiO <sub>2</sub> )			
Hydrogen Sulphide (H <sub>2</sub> S)			

Total solids  
in parts per million

By evaporation ..... **8455**  
After ignition ..... **8110**  
Calculated ..... **8292**

Properties of reaction in  
per cent

Primary salinity ..... **76.74**  
Secondary salinity ..... **18.54**  
Primary alkalinity ..... **0.00**  
Secondary alkalinity ..... **4.72**  
Chloride salinity ..... **14.12**  
Sulphate salinity ..... **85.88**

Remarks and conclusions .....

9-546-b  
(August, 1932)

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Laboratory - Midwest, Wyoming

INFORMATION TO BE FURNISHED WITH EACH SAMPLE OF WATER

Marks on container ..... Lab. No. 37-497 (Filled by Chemist)  
SOURCE OF SAMPLE:

Field Seven Mile Dome, Utah Farm or Permit  
None Salt Lake City 023798  
(Serial Number)  
Operator Columbia Crude Corp. Operator's Address Salt Lake City, Utah  
Well No. 1 NW SW SE,  $\frac{1}{4}$  Sec. 12, T. 26 S, R. 2 E, M. S.L.M.  
Sample taken by E. W. Henderson Date taken 2-26-37

If known, name of sand (or formation) from which this sample is produced Hermosa  
(If doubtful, so state)

Depth to top of sand 1st sand 459-475 Depth to bottom of sand 2d sand 1247' (crevice)

Depth well drilled 2134 Present depth 2134

Depths (if known) where water encountered 459 and at 1247'. Possibly at lower depth.

Depth at which water string is landed, cemented, mudded 2028' landed

METHOD OF SAMPLING:

Place where sample was obtained (sump hole, lead line, flow tank, bailer, etc.)

Bailed from hole

Method of production (flowing, pumping, air, etc.) Drilling well

Initial production:

Barrels Oil none  
Barrels Water Not determined  
Gas Volume 0  
Rock Pressure Water level 465'  
below surface

Present production:

Barrels Oil none  
Barrels Water Not determined  
Gas Volume 0  
Rock Pressure Water level 465'  
below surface

REASON FOR ANALYSIS:

- (1) Future reference: X  
(2) .....  
(3) Correlation: To be correlated with sample obtained 1-15-1937 to deter-  
mine whether a third water sand has been encountered below pipe.  
(4) .....

Note: A sample for analysis is of no value unless accompanied by above information  
Complete information on this form is to be attached to each sample container; other-  
wise sample will be disregarded. Be sure to seal or tightly cork all containers  
immediately after sampling and label all samples so that there will be no confusion.



9-546  
(April, 1931)

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Field Laboratory - Midwest, Wyoming

INFORMATION TO BE FURNISHED WITH EACH SAMPLE OF: (1) WATER,  
(2) OIL, (3) GAS, (4) GASOLINE, FOR ANALYSIS (Indicate which).

Marks on Container ..... Lab. No. .... (Filled by Chemist)  
SOURCE OF SAMPLE:

Field ~~Seven Mile Dome~~ ..... Farm or ~~Lease~~ <sup>Permit</sup> ~~XXXX~~ Salt Lake City 026793  
(Serial Number)

Operator ~~Columbia Grude Corp.~~ ..... Operator's Address ~~Salt Lake City, Utah.~~

Well No. ~~1 NE 37 SE~~ .....  $\frac{1}{4}$  Sec. ~~12~~ ..... Twp. ~~23 S.~~ <sup>25 S.</sup> Rge. ~~20 E.~~ ..... P.M. ~~S. L. E.~~

Sample taken by ~~E. W. Henderson~~ ..... Date taken ~~Feb. 26, 1937~~

If known, name of sand (or formation) from which this sample is produced ~~Hermosa~~ .....  
(If doubtful, so state)

Depth to top of sand ~~1st sand 459-475~~ ..... Depth to bottom of sand ~~2d sand 1247' (crevices)~~

Depth well drilled ~~2134~~ ..... Present depth ~~2134~~

Depths (if known) where water encountered ~~459 and at 1247'. Possibly at lower depth.~~

Depth at which water string is landed, cemented, mudded ~~2023' landed~~

METHOD OF SAMPLING:

Place where sample was obtained (sump hole, lead line, flow tank, bailer, etc.)

~~Bailed from hole.~~

Method of production (flowing, pumping, air, etc.) ~~Drilling well.~~

Initial production:

Barrels Oil ~~None~~

Barrels Water ~~Not determined~~

Gas Volume ~~0~~

Rock Pressure ~~Water level 465'~~  
~~below surface~~

Present production:

Barrels Oil ~~None~~

Barrels Water ~~Not determined~~

Gas Volume ~~0~~

Rock Pressure ~~Water level 465'~~  
~~below surface.~~

REASON FOR ANALYSIS:

- (1) Future reference: ~~X~~
- (2) .....
- (3) Correlation: ~~To be correlated with sample obtained 1-15-1937 to deter-~~
- (4) ~~mine whether a third water sand has been encountered~~  
~~below pipe.~~

Note: A sample for analysis is of no value unless accompanied by above information. Complete information on this form is to be attached to each sample container; otherwise sample will be disregarded. Be sure to seal or tightly cork all containers immediately after sampling and label all samples so that there will be no confusion.

# WATER ANALYSIS

Condition of Sample ..... Laboratory No. **37-W97**

Analyzed by **J.G.Crawford** at **Midwest, Wyoming** Date **3-6-37**

## Reacting Values

	Parts per million	Reacting Value in value	per cent
Sodium and Potassium (calculated as Sodium)	<b>8342</b>	<b>362.88</b>	<b>42.41</b>
Calcium (Ca)	<b>768</b>	<b>38.33</b>	<b>4.48</b>
Magnesium (Mg)	<b>324</b>	<b>26.64</b>	<b>3.11</b>
Iron (Fe)			
Sulphate (SO <sub>4</sub> )	<b>1724</b>	<b>35.89</b>	<b>4.19</b>
Nitrate (NO <sub>3</sub> )			
Chloride (Cl)	<b>13,808</b>	<b>389.50</b>	<b>45.52</b>
Carbonate (CO <sub>3</sub> )			
Bicarbonate (HCO <sub>3</sub> )	<b>150</b> <del>150</del>	<b>2.46</b>	<b>0.29</b>
Hydroxide (OH)			
Silica (SiO <sub>2</sub> )			
Hydrogen Sulphide (H <sub>2</sub> S)			

Total solids  
in parts per million

By evaporation ..... **25,336**  
After ignition ..... **25,016**  
Calculated ..... **25,040**

Properties of reaction in  
per cent

Primary salinity ..... **84.82**  
Secondary salinity ..... **14.60**  
Primary alkalinity ..... **0.00**  
Secondary alkalinity ..... **0.58**  
Chloride salinity ..... **91.57**  
Sulphate salinity ..... **8.43**

Remarks and conclusions **Entirely different water than 37-W96**

COPY RE INED SALT LAKE CITY  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

U.S. Land Office

Salt Lake City

Serial Number 026793

Lease or Permit Permit

## SUNDRY NOTICES AND REPORTS ON WELLS

MAR 27 1937

NOTICE OF INTENTION TO DRILL		SUBSEQUENT RECORD OF SHOOTING	
NOTICE OF INTENTION TO CHANGE PLANS		RECORD OF PERFORATING CASING	
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	X	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO ABANDON WELL	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO SHOOT		SUPPLEMENTARY WELL HISTORY	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 25, 1937

Following is a notice of intention to do work on land under permit described as follows:  
report of work done leaseUtah  
(State or Territory)Grand  
(County or Subdivision)Seven Mile Monocline  
(Field)Well No. 1 NE SW SE Sec. 12 25 S. 20 E. S. 1, 2, 3, 4  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1020 ft. N of S line and 1620 ft. E of W line of sec. 12

The elevation of the derrick floor above sea level is 4750 ft.

## DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

A string of 7" O. D., 10 thd, 24#, J & L, seamless pipe was cemented at 2133' with 75 sacks of Portland cement using Perkins 2-plug method and Baker float valve placed 25' above shoe. Work was completed on March 25, 1937. The last 50 sacks of cement was treated with Konset. Operations will be suspended until March 31 when 700 to 800 feet of water will be bailed from hole and pipe test made. If pipe test is O. K. hole will be refilled and plugs drilled. Operations will then be suspended for water shut off test which will be made on April 2 or 3 depending on time required to drill plugs. If water is shut off, the sand encountered at 2134' will be making short runs of not more than a foot or two at a time.

Approved March 27, 1937  
(Date)

Company Columbia Crude Corp.

By E. W. HendersonTitle District Engineer  
GEOLOGICAL SURVEY

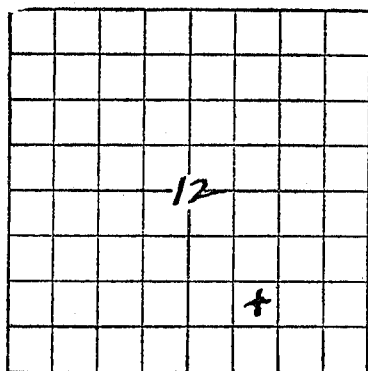
Title Geologist

Address 306 Federal Bldg.,  
Salt Lake City, Utah.

Address Moab, Utah.

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

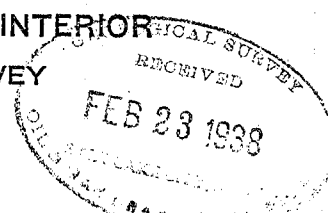
GOVERNMENT PRINTING OFFICE - 6-7032



LOCATE WELL CORRECTLY

U. S. LAND OFFICE  
SERIAL NUMBER Salt Lake  
LEASE OR PERMIT TO PROSPECT 026798  
Rath

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

Company Columbia Crude Corp. Address Los Angeles, C Calif.  
Lessor or Tract Rath Permit 026798 Field Moab Anticline State Utah  
Well No. 1 Sec. 12 T. 25 R. 20 Meridian Salt Lake County Grand  
Location 1026 ft. [N.] of S Line and 1620 ft. [E.] of E Line of Sec. 12 Elevation 1700 (Derrick floor relative to level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed [Signature]

Date Feb-22-1938 Title Geologist in Charge

The summary on this page is for the condition of the well at above date.

Commenced drilling August 31- 1935 Finished drilling Feb-27- 1938

OIL OR GAS SANDS OR ZONES

No. 1, from 1026 to 1026 No. 4, from 1026 to 1026

No. 2, from 1026 to 1026 No. 5, from 1026 to 1026

No. 3, from 1026 to 1026 No. 6, from 1026 to 1026

IMPORTANT WATER SANDS

No. 1, from 459 to 475 (fresh) No. 3, from 2112 to 2125 (salty)

No. 2, from 1245 to 1245 (salty) No. 4, from 2207 to 2212

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From	To	
12 1/2"	50#	8		180'	Plain				
7 1/2"	26#	10		2135	Plain				
5 1/2"	15#	10		2336	Plain				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
12 1/2"	80'	25			
7 1/2"	2135'	75			
5 1/2"	2336'	15			

PLUGS AND ADAPTERS

No. Pipe cemented

All formation shut-off

## PLUGS AND ADAPTERS

Heavy plug - Material

Length

Depth set

Adapters - Material

Size

## SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
1 1/2"	1A32	38		1917	100	100
1 1/2"	1A32	38		1917	100	100
1 1/2"	1A32	38		1917	100	100
1 1/2"	1A32	38		1917	100	100
1 1/2"	1A32	38		1917	100	100

## TOOLS USED

Rotary tools were used from

feet to

feet, and from

feet to

feet

Cable tools were used from

feet to

3260

feet, and from

feet to

feet

## DATES

Put to producing

19

The production for the first 24 hours was

barrels of fluid of which

% was oil;

%

emulsion; % water; and % sediment.

Gravity, B<sub>6</sub>

If gas well, cu. ft. per 24 hours

Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

## EMPLOYEES

K. C. Thompson

Driller

O. W. Hankin

Driller

A. E. Voornies

Driller

Mennel Stewart

Driller

## FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
800	815	15'	Alluvium
810	19	9'	Red shale
819	20	1'	Shell
820	55	35'	Red sandstone
855	57	2'	Red shale
857	65	8'	Red sandy shale
865	75	10'	Red sandstone
875	85	10'	Red sandy shale (small gas)
885	114	29'	Red shale
8114	123	9'	Red sandstone
8123	133	10'	Porous gray sand
8133	141	8'	Brown lime (first Shafer)
8141	170	29'	Gray lime
8170	186	16'	Red sandstone
8186	192	6'	Gray sandstone
8192	197	5'	Blue limestone
8197	252	55'	Red sandstone
8252	255	3'	Red shale
8255	287	32'	Red sandstone
8287	308	21'	Gray lime
8308	328	20'	Pink sandstone
8328	344	16'	Sandy lime
8344	364	20'	Gray lime

FORMATION RECORD - CONTINUED

(OVER)

## FORMATION RECORD—Continued

FROM	TO	TOTAL FEET	FORMATION
364	377	13	Blue lime
377	387	10	Gray lime
387	418	31	Red sandstone
418	420	2	Gray lime
420	455	35	Brown sandstone
455	459	4	Salmon lime
459	475	16	Gray sand-water (Top Hermosa)?
475	566	91	Blue lime
566	575	9	Blue shale & lime streaks
575	585	10	Blue shale and lime streaks
585	590	5	Red sandstone
590	597	7	Red clay
597	606	9	Gray lime
606	626	20	Brown shale
626	706	80	Brown sandy lime
706	733	27	Blue broken lime
733	738	5	Salmon lime
738	784	46	Brown limey shale
784	840	56	Black to gray lime
840	865	25	Brown sandy shale
865	868	3	Gray sand
868	908	40	Gray lime
908	912	4	Brown sandy shale
912	920	8	Gray lime
920	936	16	Brown shale
936	944	8	Gray lime
944	949	5	Gray sandy lime
949	960	11	Gray lime
960	970	10	Brown shale
970	1015	45	Gray lime
1015	1060	45	Broken Gray lime
1060	1069	9	Blue shale
1069	1085	16	Broken gray lime
1085	1110	25	Brown shale
1110	1126	16	Gray lime
1126	1245	119	Gray sandy lime
1245	1246	1	Sand break- salt water
1246	1385	139	Gray lime
1385	1493	108	Broken gray sandy lime
1493	1551	58	Grayish black lime
1551	1561	10	Gray sandstone
1561	1571	10	Gray sandy lime
1571	1641	70	Gray lime (hard black streaks)
1641	1687	46	Gray sandy lime
1687	1715	28	Black lime (white shale breaks)
1715	1785	70	Gray sandy lime (show gas)
1785	1864	79	Black lime
1864	1874	10	Black shale with gypsum
1874	1895	21	Gray lime Anhydrite streaks
1895	1938	40	Gray lime
1938	1965	30	Gray sandy lime
1965	2000	35	Black shale - TOP PARADOX
2000	2030	30	Brown shale
2030	2037	7	Black sandy lime (show oil)
2037	2045	8	Sandstone hard (show oil)
2045	2085	40	Black sandy lime (oil cut)
2085	2112	27	Gray sandy lime
2112	2125	13	Limey sand (oil cut & water)
2125	2130	5	Black, sandy lime
2130	2133	3	

364	377	13	Blue lime
377	387	10	Gray lime
387	418	31	Red sandstone
418	420	12	Gray lime
420	455	35	Brown sandstone
455	459	14	Salmon lime
459	475	16	Gray sand- water (Top Hermosa)?
475	566	91	Blue lime
566	575	9	Blue shale & lime streaks
575	585	10	Blue shale and lime streaks
585	590	15	Red sandstone
590	597	7	Red clay
597	606	39	Gray lime
606	626	20	Brown shale
626	706	80	Brown sandy lime
706	733	27	Blue broken lime
733	738	5	Salmon lime
738	784	46	Brown limey shale
784	840	56	Black to gray lime
840	865	25	Brown sandy shale
865	868	30	Gray sand
868	908	40	Gray lime
908	912	4	Brown sandy shale
912	920	8	Gray lime
920	936	16	Brown shale
936	944	18	Gray lime
944	949	5	Gray sandy lime
949	960	11	Gray lime
960	970	10	Brown shale
970	1015	45	Gray lime
1015	1060	45	Broken Gray lime
1060	1069	9	Blue shale
1069	1085	16	Broken gray lime
1085	1110	25	Brown shale
1110	1126	18	Gray lime
1126	1245	119	Gray sandy lime
1245	1246	1	Sand break- salt water
1246	1385	139	Gray lime
1385	1433	108	Broken gray sandy lime
1433	1551	58	Grayish black lime
1551	1561	10	Gray sandstone
1561	1571	10	Gray sandy lime
1571	1641	70	Gray lime (hard black streaks)
1641	1687	46	Gray sandy lime
1687	1715	28	Black lime (white shale breaks)
1715	1785	70	Gray sandy lime (show gas)
1785	1864	79	Black lime
1864	1874	10	Black shale with gypsum
1874	1895	21	Gray lime Anhydrite streaks
1895	1935	40	Gray lime
1935	1965	30	Gray sandy lime
1965	2000	35	Black shale - TOP PARADOX
2000	2030	30	Brown shale
2030	2037	7	Black sandy lime (show oil)
2037	2045	8	Sandstone hard (show oil)
2045	2085	40	Black sandy lime (oil cut)
2085	2112	27	Gray sandy lime
2112	2125	13	Limey sand (oil cut & water)
2125	2130	5	Gray sandy lime
2130	2133	3	Good show oil/ PIPE set
2133	2135	2	at 2130 settled to 2134.
2135	2142	7	White lime shell (casing point)
2142	2152	10	Blue shale
2152			Gray lime

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together

with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Casing Size	Log Depth	Depth	Time	Amount	Kind of Shot	Cost and Billed From	Notes	Remarks

**CASING RECORD**

No. 5' from 1000 to 1005 WELL TO HISTORY- No. 4' from 1000 to 1005  
 No. 3' from 1000 to 1005 No. 2' from 1000 to 1005  
 The only creditable showing of oil encountered in the well was in three feet of sand from 2130 to 2133. This showing could not be tested as it was found impossible to shut off the water found at 2112 to 2125.

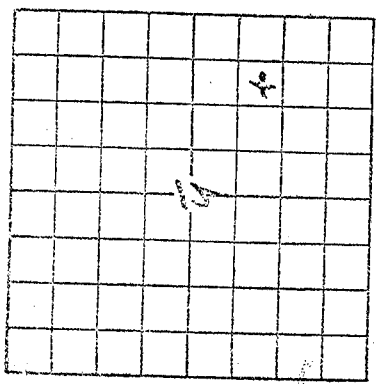
No. Numerous small shows of both oil and gas were found, but nothing of a commercial nature.

**OIL OR GAS SHOWN ON WELL**

Commenced drilling 1000 1005  
 Signed [Signature]  
 The summary on this page is for the condition of the well at above date  
 Date 1000 1005

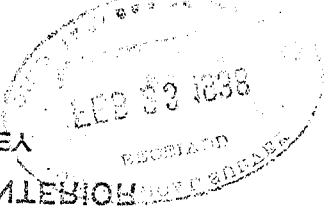
so far as can be determined from all available records.  
 The information given hereafter is a complete and correct record of the well and all work done thereon.  
 Location of [ ] of [ ] Line and [ ] of [ ]  
 Well No. [ ] Sec. [ ] T. [ ] R. [ ]  
 Possor of tract [ ]  
 Company [ ]  
 Address [ ]

**LOCAL WELL CORRECTLY**



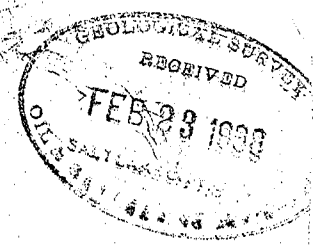
**LOG OF OIL OR GAS WELL**

**GEOLOGICAL SURVEY  
 DEPARTMENT OF THE INTERIOR**



TYPE OF PERMIT TO PROCEED  
 SURVEY NUMBER  
 U. S. LAND OFFICE





Log continued

2152	-	2162	10'	White sandy lime <i>cavey</i>
2162	-	2190	28	Brown shale ( <del>caving</del> )
2190	-	2191	1	Hard shell
2191	-	2207	16	Gray sandy lime (gas & water)
2207	to 2212		5	Brown sandy lime (2 1/2 bbls hr. water)
2212	-	2235	23	Gray shale (caving)
2235	-	2298	63	Gray limestone
2298	-	2306	8	Gray shale
2306	-	2318	12	Black shale lime streaks
2318	-	2323	5	Gray lime <u>sandy</u> (show gas)
2323	-	<del>2326</del>	3	<del>Gray shale</del>
<del>2326</del>	-	<del>2338</del>	12	<del>Gray shale cavey.</del>
2338	-	2355	17	Gray sandy lime - (4 3/4" pipe set)
2355	-	2360	5	Black sandy lime (4 3/4" set + 2 1/2" 2360)
2360	-	2372	12	Black & gray shale with salt.
2372	-	2382	10	Hard gray lime <i>good show</i>
2382	-	2430	48	Brown shale (shale gas)
2430	-	2440	10	Black & gray shale (cavey)
2440	-	2545	105	Salt
2545	-	2620	75	Gray shale salt streaks
2620	-	2820	200	Salt
2820	-	2833	13	Gray shale
2833	-	2890	<del>57</del>	<del>Salt</del>
<del>2890</del>	-	<del>3050</del>	<del>160</del>	<del>Salt (showing potash)</del>
3050	-	3260	210	Salt (small water at 3150)
	-	3295	462'	<del>Salt - potash show 2890-3070</del>
BOTTOM HOLE 3260'				

(Continued on next page)

Signed

*G. H. Pitts*

3295	3315	20	Shales with salt streaks
3315	3341	26	Gray sandy lime (show gas)
3341	3372	31	Sandy gray shale
3372	3386	14	Salt
3386	3420	34	Shale with salt streaks
3420	3505	85	Salt with shale streaks
3505	3545	40	Salt
3545	3567	22	Shale (some salt)
3567	3587	20	Salt
3587	3602	15	Sandy shale (show gas)
3602	3670	68	Salt
3670	3688	18	Shale gray
3688	3809	121	Salt with shale streaks
3809	3866	57	Sandy shales (show gas)
3866	3882	16	Salt and black shale streaks
3882	3898	16	Broken salt formation (showing gas)
3898	(3992)	(94)	(Salt)
3992	(4150)	(58)	(Salt)
4150	4172	22	Salt and sand streaks
4172	4190	18	Salt
4190	4210	20	Anhydrite and salt streaks
4210	4214	4	Black shale (caving badly)
4214	4243	29	Cavey black shale and anhydrite

*(gray)*

Tools lost at 4243 - Hole abandoned Oct. 26, 1938.

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

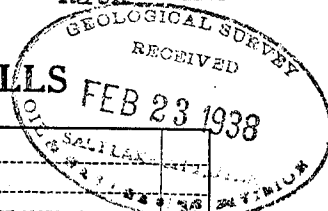
U.S. Land Office

Salt Lake City

Serial Number 026798

Lease or Permit Rath


SUNDRY NOTICES AND REPORTS ON WELLS



NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING
NOTICE OF INTENTION TO CHANGE PLANS	RECORD OF PERFORATING CASING
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO ABANDON WELL
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Moab Utah Feb 22 1938 19

Following is a notice of intention to abandon drilling well on land under permit described as follows:  
report of work done lease

Utah Grand Moab Anticline  
(State or Territory) (County or Subdivision) (Field)  
Well No. 1 NE of SW of SE- 12 25 South 20 E. S.L.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1020 ft. N of S line and 1620 ft. E of W line of sec. 12-25-20 E.

The elevation of the derrick floor above sea level is 4700 ft. above sea level.

DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

I hereby request permission to abandon well of Columbia Crude Corp. at location as above given. Request permission to plug in manner as follows: 1-Bridge at top salt or 2430' and cement with 10 to 15 sacks. Salt Section below to be mud filled before bridging. 2- Shoot off shoe of 5" pipe at 2336' and pull same. 3- Shoot shoe of 7" pipe at 2134' and pull same- Fill the hole with mud and put in a cement plug at surface. 4- Fill in cellar and remove all tools and equipment.

Signed [Signature]  
Title \_\_\_\_\_

Approved (SEE ATTACHED) June 27, 1938

[Signature]  
E. W. Henderson  
District Engineer

Title \_\_\_\_\_  
306 Federal Building  
Address Salt Lake City, Utah

Company Columbia Crude Corporation

By [Signature]

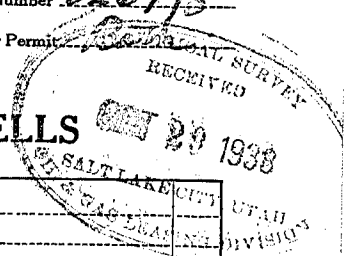
Title Geologist in Charge

Address Moab, Utah

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

*Surfice*DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSerial Number *026793*

Lease or Permit



## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING
NOTICE OF INTENTION TO CHANGE PLANS	RECORD OF PERFORATING CASING
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO ABANDON WELL
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

*Mont Utah Oct. 24 - 1938*Following is a <sup>*abandon well*</sup> notice of intention to ~~do work~~ on land under <sup>*permit*</sup> ~~lease~~ described as follows:

*Utah* *Grand* *Mont Anticline*  
(State or Territory) (County or Subdivision) (Field)

Well No. *1-* *46 1/4-12-* *255. 20E.* *S.L.M.*  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located *1020* ft. <sup>*N*</sup><sub>*S*</sub> of *5* line and *1620* ft. <sup>*E*</sup><sub>*W*</sub> of *E* line of sec. *12-25-20*.The elevation of the derrick floor above sea level is *4720* ft. *+ 10*.

## DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

*It is intention of Columbia Crude Corp of Utah to abandon their test well at above location due to loss of tools at 4243'. Hole will be filled with heavy mud 4243' up to 2375' where a water tight plug will be put and cemented. Pipe - with 7" x 5" strings will be shot at 1800' and pulled - Hole will be filled heavy mud to surface where another plug will be put and cemented inside the 80' 7 1/2" conductor pipe.*

NOTE: A permanent marker, consisting of not less than 10' of iron pipe, not less than 4" in diameter, and extending four feet above the surface to be cemented in the ground at the location of this well. A supplementary report of final abandonment in triplicate on Form 9-331a to be submitted within 15 days after completion of abandonment work. This report must include a detailed account of the manner in which the work was carried out.

Approved *SEE NOTE ABOVE* Oct. 29, 1938Company *Columbia Crude Corp.*

*E. W. Henderson*  
Title *District Engineer*  
GEOLOGICAL SURVEY  
306 Federal Bldg.

By *E. W. Henderson*Title *Geologist in Charge*Address *Salt Lake City*Address *Mont Utah*

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

U.S. Land Office .....

Salt Lake City .....

Serial Number 026798 .....

Lease or Permit Permit .....

## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL .....	SUBSEQUENT RECORD OF SHOOTING .....
NOTICE OF INTENTION TO CHANGE PLANS .....	RECORD OF PERFORATING CASING .....
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF .....	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING .....
REPORT ON RESULT OF TEST OF WATER SHUT-OFF .....	NOTICE OF INTENTION TO ABANDON WELL .....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL .....	SUBSEQUENT REPORT OF ABANDONMENT .....
NOTICE OF INTENTION TO SHOOT .....	SUPPLEMENTARY WELL HISTORY .....

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

November 10, 1938

Following is a ~~notice of intention to do work~~  
report of work done on land under ~~permit~~  
report described as follows:

Utah Grand Moab Anticline  
(State or Territory) (County or Subdivision) (Field)

Well No. 1 SE $\frac{1}{4}$  Section 12 25 S. 20 E. S. L. M.  
( $\frac{1}{4}$  Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1020 ft.  $\begin{matrix} N \\ S \end{matrix}$  of S. line and 1620 ft.  $\begin{matrix} E \\ W \end{matrix}$  of E. line of sec. 12.

The elevation of the derrick floor above sea level is 4700 ft. \* or -

## DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

Bottom of hole 4243 ft. Well abandoned with string 4-inch tools in hole. Filled with heavy mud from 4243 ft. up to 2450 ft., alternate wood and cement plugs 2450 ft. up to 2350 ft. or ten feet inside the 4-3/4" pipe. Pipe was shot 20 sticks dynamite at 1771 ft. and both 4-3/4" and 7-inch were parted and pulled. Hole filled with mud from plug up to 450 ft. or top water level, where again bridged and plugged with wooden plug. Hole filled with sump mud from 450 ft. up into conductor pipe at 80 ft. The conductor pipe filled with dry dirt and cement, one joint 4-3/4" pipe cemented in as a marker, left extended 4 ft. above surface. The location was cleaned up, all equipment hauled away.

Approved November 22, 1938  
(Date)Title District Engineer  
GEOLOGICAL SURVEYAddress 306 Federal Building  
Salt Lake City, Utah

Company COLUMBIA CRUDE CORPORATION

By G. E. Pitts  
Gen. Mgr.

Address Moab, Utah

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

GOVERNMENT PRINTING OFFICE 6-7053